



# NBS Lead PAM: Taking NEDSS Beyond Communicable Disease Surveillance

Wendy Blumenthal, MPH

Lead Poisoning Prevention Branch, CDC

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# Lead PAM Vision



- Use of Rational Unified Process (RUP)
- State and local CLPPPs, CDC, SAIC
- Input and feedback:
  - ◆ Joint Application Development (JAD) Sessions
  - ◆ Lead Branch Web Board
  - ◆ Conference Calls and Webinars
- Collaboration with Environmental Public Health Tracking Network

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# LEAD PAM Scope

- Blood lead surveillance, collection of environmental samples, individual case management, and environmental risk assessment
- Child and adult blood lead
- Data migration tool: from STELLAR to Lead PAM
- Electronic Laboratory Reporting (ELR)

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# Lead PAM Development

- Completed Phase I in July 2003
  - ◆ Established project scope
  - ◆ Identified high level system requirements
- Phase II:
  - ◆ August 2003 JAD session: detailed desired features and gathered high level business requirements
  - ◆ January, April, May 2004 JAD sessions: detailed and validated Use Cases for: core data entry elements, Lead Program test results, patient case management, environmental risk assessment, letters, alerts, actions/events

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# Features: Extending NBS Functionality (1)



- Electronic Laboratory Reporting
  - ◆ Enable import without required test-by-test review
  - ◆ Validation routines (missing data, duplicate checks, etc.)
  - ◆ Electronically process environmental samples (future)
- Address Information
  - ◆ New entity—changes data model
  - ◆ Location concept—important for BT and environmental
  - ◆ Improved quality—USPS standards; city, county, state validations; address level validation (e.g., TIGER files)
- Link child and adult lead programs
- Property owners, Employers
- Primary Prevention
- Contacts (similar to a “rolodex”)

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# Features: Extending NBS Functionality (2)



- Associations
  - ◆ Patients to Patients (e.g., siblings, parents and children)
  - ◆ Providers and Medical Groups
  - ◆ Addresses to Addresses (e.g., apartments in a building)
- Individual Case Management
  - ◆ Workflow management: alerts (“worker queues”), case assignment, etc.
  - ◆ Scheduling: next test due, overdue, etc.
  - ◆ Automatic case opening and case closure
  - ◆ Events/Actions: letter, visit, phone call, etc.
  - ◆ Letter generation: batch or individual
  - ◆ Notes
  - ◆ Define risk status
  - ◆ Case prioritization

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# Features: Extending NBS Functionality (3)



- Configuration parameters
  - ◆ Rules for automatically opening a case
  - ◆ Rules for determining jurisdiction for ELR
  - ◆ Rules for assigning a case manager to a case
- Environmental Investigation/Risk Assessment
  - ◆ New laboratory tests
  - ◆ New PHIN vocabulary
  - ◆ Document inspection findings and abatement procedures
  - ◆ Automatic opening of investigations
  - ◆ Interface with handheld devices and import data (future)
- AVR
  - ◆ GIS, Geo-coding
  - ◆ QA/QC??
  - ◆ Flexible reporting, drill down capability, sorts, queries
- Registry/linkages

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# Contact Information

- Wendy Blumenthal: NEDSS contact
  - ◆ 770-488-3619
  - ◆ [Wblumenthal@cdc.gov](mailto:Wblumenthal@cdc.gov)
- Lem Turner: NEDSS and STELLAR contact
  - ◆ 770-488-4944
  - ◆ [Lturner@cdc.gov](mailto:Lturner@cdc.gov)
  - ◆ [Stel@cdc.gov](mailto:Stel@cdc.gov)

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